

Having thus set forth the nature of the invention, what is claimed herein is:

1. A water dispenser comprising a housing having a water treatment tank, a water inlet selectively feeding water into an upper section of said tank, cooling coils acting to chill water in a lower section of said tank, an ultra-violet lamp disposed in both the upper and lower sections of the tank for transmitting ultra-violet light rays to water in both upper and lower sections to eliminate bacterial growth in both upper and lower sections, an encapsulating sleeve disposed about the ultra-violet lamp providing a water free area about the lamp, a first faucet communicating with said lower section for dispensing chilled water selectively, and a leak detector sensing in the water free area.
2. The water dispenser as recited in claim 1 further comprising a reflective surface located in the upper section of the tank.
3. The water dispenser of claim 2 wherein the reflective surface reflects ultra-violet rays from the lamp into at least a portion of the first faucet.
4. The water dispenser of claim 1 further comprising a solenoid valve in communication with the water inlet wherein when the leak detector detects water in the water free area, the solenoid valve is shut.

5. The water dispenser of claim 1 further comprising an outer vessel disposed in the tank below and around at least a portion of the lamp and encapsulating sleeve.

6. The water dispenser of claim 5 further comprising a surrounding sleeve intermediate the outer vessel and the encapsulating sleeve, said surrounding sleeve spaced to provide an opening intermediate the surrounding sleeve and outer vessel wherein water passes through the opening as it is fed toward the upper section of the tank.

7. The water dispenser as recited in claim 6 further comprising a baffle separating the upper and lower sections of the tank, said baffle connected to the outer vessel.

8. The water dispenser of claim 1 further comprising a translucent baffle separating the upper and lower sections of the tank.

9. A water dispenser comprising a housing having a water treatment tank, a water inlet selectively feeding water into an upper section of said tank, cooling coils acting to chill water in a lower section of said tank, an ultra-violet lamp disposed in both the upper and lower sections of the tank for transmitting ultra-violet light rays to water in both upper and lower sections to eliminate bacterial growth in both upper and lower sections, a first faucet communicating with said lower section for dispensing chilled water selectively, and a reflective

surface disposed in an upper portion of the tank reflecting ultra-violet rays into at least a portion of the first faucet.

10. The water dispenser of claim 9 further comprising an encapsulating tube about the ultra-violet lamp, said encapsulating tube providing a water free area about the ultra-violet lamp.

11. The water dispenser of claim 10 further comprising a leak detector sensing in the water free area.

12. A water dispenser comprising a housing having a water treatment tank, a water inlet selectively feeding water into an upper section of said tank, cooling coils acting to chill water in a lower section of said tank, an ultra-violet lamp encapsulated in both the upper and lower sections of the tank for transmitting ultra-violet light rays to water in both upper and lower sections to eliminate bacterial growth in both upper and lower sections, a first faucet communicating with said lower section for dispensing chilled water selectively, a surrounding sleeve spaced from and located about a portion of the ultraviolet lamp, and an outer vessel located below and about a portion of the surrounding sleeve with an opening intermediate the surrounding sleeve and the outer vessel communicating water from the water inlet intermediate the surrounding sleeve and the ultra-violet lamp through the opening and then intermediate the

surrounding sleeve and the outer vessel prior to feeding the water into the upper section of said tank in a thin film laminar flow.

13. The water dispenser of claim 12 further comprising a reflective surface in an upper section of the tank.

14. The water dispenser of claim 13 further comprising an encapsulating sleeve about the ultra-violet lamp providing a water free area about the ultra-violet lamp inside the encapsulating sleeve, and water fed from the water inlet passing external to the encapsulating sleeve as it is fed intermediate the surrounding sleeve and the ultra-violet lamp.

15. The water dispenser of claim 14 further comprising a leak detector sensing in the water free area.

16. The water dispenser of claim 15 further comprising a solenoid valve in communication with the water inlet and when the leak detector detects water in the water free area, said solenoid valve is shut.

17. A water dispenser comprising a housing having a water tank and information center having a display receiving input related to a volume of water passing through the water

tank, and said information center at least selectively providing a time until next service on the display.

18. The water dispenser of claim 17 wherein the information center further displays at least selectively information relating to the dispenser on the display.

19. The water dispenser of claim 17 wherein the dispenser further comprises a water inlet selectively feeding water to an upper section of said tank, cooling coils acting to chill water in a lower section of said tank, a ultra-violet lamp disposed in both the upper and lower sections of the tank for transmitting ultra-violet light raised to water in both upper and lower sections to eliminate bacterial growth in both upper and lower sections, and the information center displays at least selectively an amount of cost savings on the display related to a cost savings of using the dispenser over the cost of buying bottled water.

20. The water dispenser of claim 17 further comprising a controller connected to a solenoid valve at a water inlet to the water tank, said controller evaluating an open time of the solenoid valve relative to an expected fill time and if the open time exceeds the expected fill time, performing at least one of closing the solenoid valve and providing an alarm at the information center activating an alarm.

21. A water dispenser comprising a housing having a water tank, and a first faucet communicating with water in the water tank, said first faucet having a tube connected to a heater wherein the heater exposes the tube to at least a predetermined temperature above ambient for a predetermined time sufficient to eliminate bacterial growth in the tube, and a controller connected to the heater for turning the heater on and off.

22. The water dispenser of claim 21 further comprising an information center having a display, said display coupled to a sensor configured to evaluate an amount of water dispensed from the dispenser, and said information center at least selectively providing an amount of time until next service to the display.

23. The dispenser of claim 22 further comprising a reflector in an upper section of the tank directing ultraviolet light into the at least a portion of the first faucet.

24. The dispenser of claim 23 wherein the water tank further comprises a water inlet selectively feeding water into the upper section of said tank, cooling cold chilled water in the lower section of the tank and ultra-violet lamp disposed above both the upper and lower sections, and an encapsulating sleeve disposed about the ultra-violet lamp thereby providing a water free area about the lamp.

25. A water dispenser comprising a housing having a water treatment tank, a water inlet selectively feeding water into an upper section of said tank, cooling cold chilled water in the lower section of the tank, and ultra-violet lamp disposed above the upper and lower sections of the tank for transmitting ultra-light rays to water in both upper and lower sections to eliminate bacteria growth in both upper and lower sections, a first faucet communicating with said lower section for dispensing chilled water selectively, and a translucent baffle separating the upper and lower sections of the tank.

26. A water dispenser comprising a housing having a water treatment tank, a water inlet subsequently feeding into an upper section said tank, cooling coils acting to chill water in a lower section of said tank, an ultraviolet lamp disposed in the upper and lower section of the tank for transmitting ultra-violet light rays to water in both upper and lower sections to eliminate bacteria growth in both upper and lower sections, a first faucet communicating with said lower section for dispensing chilled water selectively, a solenoid valve connected to the water inlet; and a controller sensing an open time of the solenoid valve wherein the open time is compared to an expected open time and if the open time exceeds the expected open time, performing one of activating an alarm and closing the solenoid valve.

27. A water dispenser comprising a housing having a water treatment tank, a water inlet selectively feeding water into an upper section of said tank, cooling cold chilled water in

the lower section of said tank, an ultra-violet lamp disposed in both the upper and lower sections of the tank for transmitting ultra-light rays to water in both upper and lower sections to eliminate bacteria growth in both upper and lower sections, a first faucet communicating with said lower section for dispensing chilled water selectively, a baffle separating the upper and lower sections of the tank, and an outer vessel located below and about at least a portion of the lamp with said outer vessel connected to the baffle.